

12. (New) The process as claimed in claim 11, wherein the organic compound is reduced by hydrogenation.

13. (New) The process as claimed in claim 11, wherein the anode is in contact with at least one hydrogenation catalyst.

14. (New) The process as claimed in claim 13, wherein the hydrogenation catalyst is a noble metal.

A 15. (New) The process as claimed in claim 13, wherein the hydrogenation catalyst is applied to a graphite felt.

16. (New) The process as claimed in claim 13, wherein the hydrogenation catalyst is deposited on the anode from suspension.

17. (New) The process as claimed in claim 13, wherein the hydrogenation catalyst in the form of a suspension is brought into contact with the anode.

18. (New) The process as claimed in claim 10, wherein the organic compound is both reduced and oxidized at the cathode.

19. (New) The process as claimed in claim 10, wherein the electrode is a gas diffusion electrode.

20. (New) The process as claimed in claim 10, wherein the organic compound is furan or a furan derivative or furan and a furan derivative.